=> fil reg; d stat que 13; d sqide 13 1-2; fil capl uspatf; s 13 FILE 'REGISTRY' ENTERED AT 16:55:13 ON 05 DEC 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 DEC 2005 HIGHEST RN 869277-23-6 DICTIONARY FILE UPDATES: 4 DEC 2005 HIGHEST RN 869277-23-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

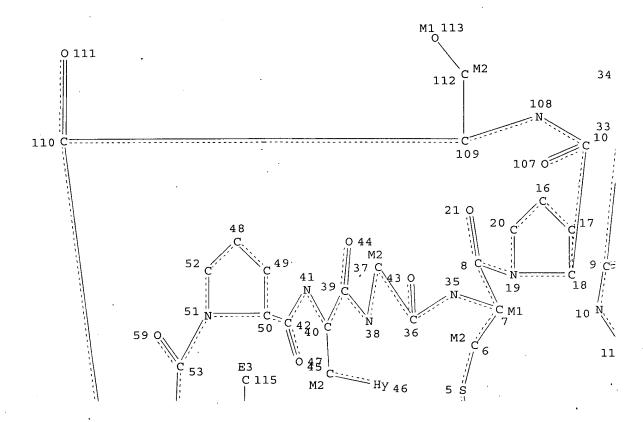
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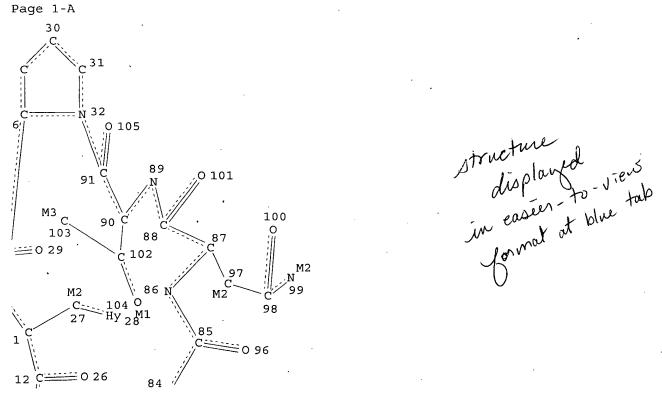
Structure search iteration limits have been increased. See HELP SLIMITS for details.

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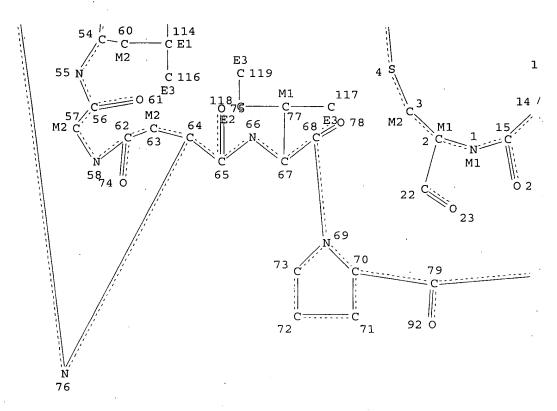
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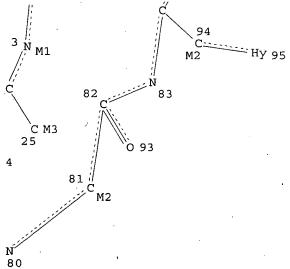




Page 1-B



Page 2-A



Page 2-B NODE ATTRIBUTES: HCOUNT IS M1 ΑT HCOUNT IS M1 ATHCOUNT IS M2 TA3 HCOUNT AT6 IS M2 7 HCOUNT IS M1 AΤ AT13 HCOUNT IS M1 ΑT 25 HCOUNT IS M3 ΑT 27 HCOUNT IS M2

Searched by Barb O'Bryen, STIC 2-2518

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STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01
L3
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RN
     647807-36-1 REGISTRY
CN
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     PROTEIN SEQUENCE; STEREOSEARCH
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NTE modified (modifications unspecified)
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bridge Cys-6 - Cys-19 disulfid
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**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    C96 H127 N23 O24 S2
SR
    STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Journal; Patent
      Roles from patents: BIOL (Biological study); PREP (Preparation); USES
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
      PRP (Properties)
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
              3 REFERENCES IN FILE CA (1907 TO DATE)
              3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
    ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
L3
RN
    647807-35-0 REGISTRY
    L-Cysteine, glycyl-L-leucyl-L-prolyl-L-tryptophylglycyl-L-cysteinyl-L-
    prolyl-L-seryl-L-α-aspartyl-L-isoleucyl-L-prolylglycyl-L-tryptophyl-
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 type ----- location ----- description
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bridge Cys-6 - Cys-19 disulfide bridge
      1 GLPWGCPSDI PGWNTPWAC
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DT.CA CAplus document type: Journal; Patent
      Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP
      (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
      PREP (Preparation); PRP (Properties)
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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- 3 REFERENCES IN FILE CA (1907 TO DATE)
- 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

FILE 'CAPLUS' ENTERED AT 16:55:14 ON 05 DEC 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 16:55:14 ON 05 DEC 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

L8 4 L3

=> dup rem 18

PROCESSING COMPLETED FOR L8

L9 4 DUP REM L8 (0 DUPLICATES REMOVED)

ANSWERS '1-3' FROM FILE CAPLUS ANSWER '4' FROM FILE USPATFULL

=> d ibib ed abs hitrn 1-4; fil hom

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:60541 CAPLUS

DOCUMENT NUMBER: 140:105298

TITLE: Bicyclic oligopeptides and their use as glucagon

receptor antagonists

INVENTOR(S): Potterat, Olivier; Streicher, Ruediger; Wagner, Klaus;

Maurer, Till; Mack, Juergen; Peters, Stefan

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Germany

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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PRIO	RIORITY APPLN. INFO.:								EP 2									
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OTHER SOURCE(S): MARPAT 140:105298

ED Entered STN: 26 Jan 2004

The invention relates to a bicyclic oligopeptide or ester thereof having the capability to inhibit the glucagon receptor, which essentially consists of (a) a first cyclic group, which comprises at least one cysteine group and is formed by an amide bonding of the N-terminal amino acid with the second carboxylate group of a diacid amino acid, and (b) a second cyclic group which is formed by an amide bonding of an amino acid with the carboxylate group of said diacid amino acid, and by a disulfide bonding of the C-terminal cysteine and a cysteine group within the first cyclic group (a); and to the use of such bicyclic oligopeptides for the preparation of a medicament for the treatment or prevention of diseases, in which glucagon receptors are involved.

```
IT 647807-35-0P
```

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(bicyclic oligopeptides as glucagon receptor inhibitors in relation to disease treatment and combination with other agents and metabolic stability)

IT 647807-36-1P

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(bicyclic oligopeptides as glucagon receptor inhibitors in relation to disease treatment and combination with other agents and metabolic stability)

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:60532 CAPLUS

DOCUMENT NUMBER: 140:105297

TITLE: Bicyclic oligopeptides and their use as glucagon

receptor antagonists

INVENTOR(S): Potterat, Olivier; Streicher, Ruediger; Wagner, Klaus;

Maurer, Till; Mack, Juergen; Peters, Stefan

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Germany

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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OTHER SOURCE(S): MARPAT 140:105297

ED Entered STN: 26 Jan 2004

AB The invention relates to a bicyclic oligopeptide or ester thereof having the capability to inhibit the glucagon receptor, which essentially consists of (a) a first cyclic group, which comprises at least one cysteine group and is formed by an amide bonding of the N-terminal amino acid with the second carboxylate group of a diacid amino acid, and (b) a second cyclic group which is formed by an amide bonding of an amino acid with the -carboxylate group of said diacid amino acid, and by a disulfide bonding of the C-terminal cysteine and a cysteine group within the first cyclic group (a); and to the use of such bicyclic oligopeptides for the

preparation of a medicament for the treatment or prevention of diseases, in which glucagon receptors are involved.

TΤ 647807-35-0P

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(bicyclic oligopeptides as glucagon receptor inhibitors in relation to disease treatment and combination with other agents and metabolic stability)

647807-36-1P IT

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(bicyclic oligopeptides as glucagon receptor inhibitors in relation to disease treatment and combination with other agents and metabolic stability)

CAPLUS COPYRIGHT 2005 ACS on STN ANSWER 3 OF 4

ACCESSION NUMBER: 2004:625549 CAPLUS

DOCUMENT NUMBER: 141:310378

TITLE: BI-32169, a bicyclic 19-peptide with strong glucagon

receptor antagonist activity from Streptomyces sp

AUTHOR (S): Potterat, Olivier; Wagner, Klaus; Gemmecker, Gerd;

Mack, Juergen; Puder, Carsten; Vettermann, Regine;

Streicher, Ruediger

Boehringer Ingelheim Pharma GmbH Co. KG, Biberach an CORPORATE SOURCE:

der Riss, D-88397, Germany
Journal of Natural Products (2004), 67(9), 1528-1531 SOURCE:

CODEN: JNPRDF; ISSN: 0163-3864

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 05 Aug 2004

A new bicyclic 19-peptide, BI-32169, was isolated from the culture broth AB of Streptomyces sp. (DSM 14996). Its structure was established by amino acid anal., mass spectrometry, and 2D NMR anal. BI-32169 consists exclusively of protein amino acids and is cyclized from the side chain of Asp9 to the N-terminus of Gly1. One disulfide bond between Cys6 and Cys19 forms a bicyclic structure. BI-32169 and its Me ester derivative showed potent inhibitory activity against the human glucagon receptor (IC50 440 and 320 nM, resp.) in a functional cell-based assay.

647807-35-0P, BI 32169 IT

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(BI-32169 is a bicyclic 19-peptide from Streptomyces sp. with strong glucagon receptor antagonist activity)

TΤ 647807-36-1P

RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(BI-32169 is a bicyclic 19-peptide from Streptomyces sp. with strong glucagon receptor antagonist activity)

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS 15 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 4 USPATFULL on STN

ACCESSION NUMBER: 2004:95282 USPATFULL TITLE: Bicyclic oligopeptides INVENTOR (S):

Potterat, Olivier, Mittelbiberach, GERMANY, FEDERAL

REPUBLIC OF

Streicher, Ruediger, Biberach, GERMANY, FEDERAL

REPUBLIC OF

Wagner, Klaus, Warthausen, GERMANY, FEDERAL REPUBLIC OF Maurer, Till, Oberstadion, GERMANY, FEDERAL REPUBLIC OF Mack, Juergen, Biberach, GERMANY, FEDERAL REPUBLIC OF Peters, Stefan, Biberach, GERMANY, FEDERAL REPUBLIC OF

·PATENT ASSIGNEE(S):

Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim,

GERMANY, FEDERAL REPUBLIC OF, 55216 (non-U.S.

corporation)

PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE

PRIORITY INFORMATION:

US 2002-416797P 20021008 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD,

P. O. BOX 368, RIDGEFIELD, CT, 06877

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM: 1 LINE COUNT: 732

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a bicyclic oligopeptide or ester thereof having the capability to inhibit the glucagon receptor, comprised of:

- (a) a first cyclic group, which comprises at least one cysteine group and is formed by an amide bonding of the N-terminal amino acid with the second carboxylate group of a diacid amino acid, and
- (b) a second cyclic group which is formed by an amide bonding of an amino acid with the α -carboxylate group of said diacid amino acid, and by a disulfide bonding of the C-terminal cysteine and a cysteine group within the first cyclic group (a); and

to the use of such bicyclic oligopeptides for the preparation of a medicament for the treatment or prevention of diseases, in which glucagon receptors are involved.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 647807-35-0P

(bicyclic oligopeptides as glucagon receptor inhibitors in relation to disease treatment and combination with other agents and metabolic stability)

IT 647807-36-1P

(bicyclic oligopeptides as glucagon receptor inhibitors in relation to disease treatment and combination with other agents and metabolic stability)

FILE 'HOME' ENTERED AT 16:55:28 ON 05 DEC 2005

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92
chain nodes :
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    107 111 112
                      113
ring nodes :
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C:\Program Files\Stnexp\Queries\gud272st

32-91

41-42

33-34

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chain bonds :
   2-22 8-21
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                                                          27-28
                                                                 36 - 43
    40-45
          42-47 45-46
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                                              62-74 65-75 67-77 68-78
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                            102-104 106-107 109-112
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                                                                112-113
ring bonds :
    1-2 1-15 2-3 3-4
                         4-5 5-6 6-7
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                                             7-35 8-19 9-10 9-33
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    30 - 31
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    76-110 79-80 80-81 81-82 82-83 83-84 84-85 85-86 86-87 87-88
    88-89 89-90 90-91
                         106-108 108-109 109-110
exact/norm bonds :
                              5-6 6-7 7-8 7-35
    1-2 1-15
              2-3 3-4
                         4-5
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    9-33
          10-11 11-12 12-13
                              12-26 13-14 14-15 15-24
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          18-19 18-106 19-20 22-23 27-28 30-31 30-34 31-32
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35-36 36-37 36-43 37-38 38-39 39-40 39-44 40-41

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                                                   106-107 106-108
   108-109 109-110 110-111
exact bonds :
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                                                      90-102
   102-103 109-112 112-113
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Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:Atom 29:CLASS 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:CLASS 44:CLASS 45:CLASS 46:Atom 47:CLASS 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom 53:Atom 54:Atom 55:Atom 56:Atom 57:Atom 58:Atom 59:CLASS 60:CLASS 61:CLASS 62:Atom 63:Atom 64:Atom 65:Atom 66:Atom 67:Atom 68:Atom 69:Atom 70:Atom 72:Atom 73:Atom 74:CLASS 75:CLASS 76:Atom 77:CLASS 71:Atom 78:CLASS 79:Atom 80:Atom 81:Atom 82:Atom 83:Atom 84:Atom 85:Atom 86:Atom 87:Atom 88:Atom 89:Atom 90:Atom 91:Atom 92:CLASS 93:CLASS 94:CLASS 95:Atom 96:CLASS 97:CLASS 98:CLASS 99:CLASS 100:CLASS 101:CLASS 102:CLASS 103:CLASS 104:CLASS 105:CLASS 106:Atom 107:CLASS 108:Atom 109:Atom 110:Atom 111:CLASS 112:CLASS 113:CLASS Generic attributes :

28:

Saturation : Unsaturated Number of Carbon Atoms : 7 or more Number of Hetero Atoms : less than 2 Type of Ring System : Polycyclic

46:

Saturation : Unsaturated Number of Carbon Atoms : 7 or more Number of Hetero Atoms : less than 2 Type of Ring System : Polycyclic

95:

Saturation : Unsaturated Number of Carbon Atoms : 7 or more Number of Hetero Atoms : less than 2 Type of Ring System : Polycyclic => fil reg; d que l10 FILE 'REGISTRY' ENTERED AT 17:03:29 ON 05 DEC 2005

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http://www.cas.org/ONLINE/UG/regprops.html

sequence

Aubstitution

family search allows for conservative

L10 2 SEA FILE=REGISTRY ABB=ON GLPWGCPSDIPGWNTPWAC/SQSFP

=> d sqide 110 1-2

L10 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN

RN 647807-36-1 REGISTRY

CN L-Cysteine, glycyl-L-leucyl-L-prolyl-L-tryptophylglycyl-L-cysteinyl-L-prolyl-L-seryl-L-α-aspartyl-L-isoleucyl-L-prolylglycyl-L-tryptophyl-L-asparaginyl-L-threonyl-L-prolyl-L-tryptophyl-L-alanyl-, 19-methyl ester, (9→1)-lactam, cyclic (6→19)-disulfide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 19

NTE modified (modifications unspecified)

type	lo	cation	description
bridge	Gly-1	- Asp-9	lactam
bridge	Cys-6	- Cys-19	disulfide bridge

```
SEO
         1 GLPWGCPSDI PGWNTPWAC
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HITS AT:
           1-19
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     C96 H127 N23 O24 S2
MF
SR
     CA
     STN Files: CA, CAPLUS, USPATFULL
LC
DT.CA CAplus document type: Journal; Patent
       Roles from patents: BIOL (Biological study); PREP (Preparation); USES
RL.P
       (Uses)
      Roles from non-patents: BIOL (Biological study); PREP (Preparation);
RI, NP
       PRP (Properties)
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
               3 REFERENCES IN FILE CA (1907 TO DATE)
               3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
      ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
L10
     647807-35-0 REGISTRY
RN
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CN
     prolyl-L-seryl-L-\alpha-aspartyl-L-isoleucyl-L-prolylglycyl-L-tryptophyl-
     L-asparaginyl-L-threonyl-L-prolyl-L-tryptophyl-L-alanyl-,
     (9\rightarrow 1) -lactam, cyclic (6\rightarrow 19) -disulfide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN BI 32169
     PROTEIN SEQUENCE; STEREOSEARCH
FS
SQL 19
NTE
         ----- location ----- description
 type
______
bridge Gly-1 - Asp-9 lactam
bridge Cys-6 - Cys-19 disulfide bridge
         1 GLPWGCPSDI PGWNTPWAC
           HITS AT:
           1-19
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF C95 H125 N23 O24 S2
SR
LC
     STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Journal; Patent
       Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties)
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
               3 REFERENCES IN FILE CA (1907 TO DATE)
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3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

FILE 'CAPLUS, USPATFULL' ENTERED AT 17:05:29 ON 05 DEC 2005

=> s 110

L11

4 L10

=> s l11 not 18

18 0 L11 NOT (L8) printed with structure search

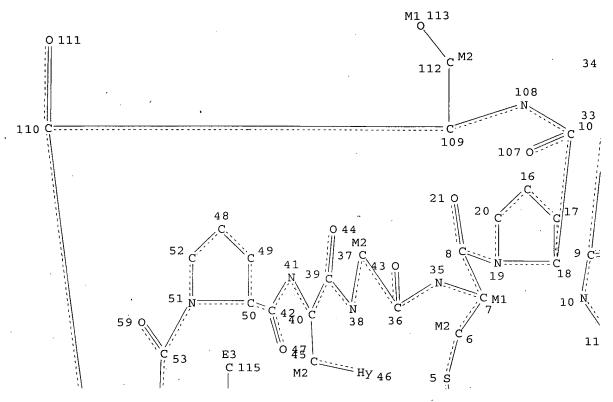
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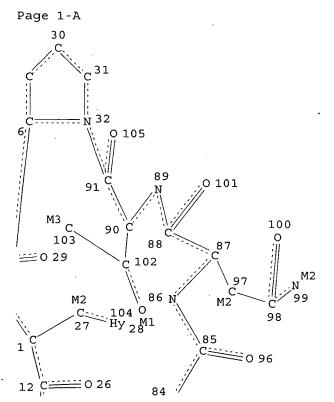
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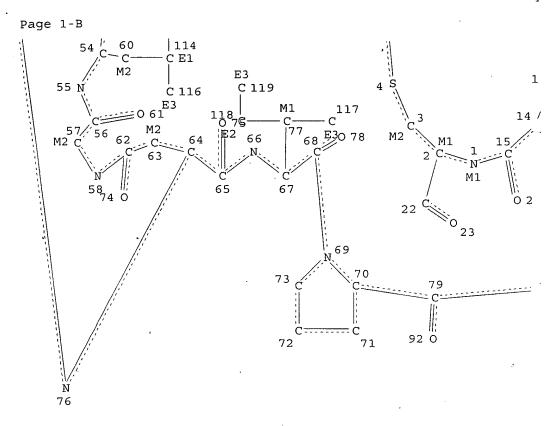
the structure search retrieved

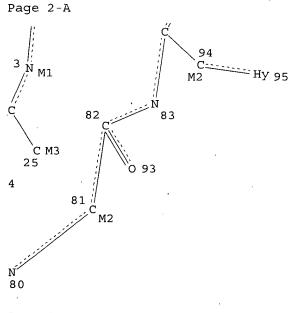
=> d que 13; d his full
L1 STR





Searched by Barb O'Bryen, STIC 2-2518





Page 2-B NODE ATTRIBUTES: HCOUNT IS M1 AT1 2 HCOUNT IS M1 ATHCOUNT IS M2 ΑT 3 HCOUNT IS M2 ΑТ 6 HCOUNT IS M1 AΤ 7 HCOUNT IS M1 ΑT 13 HCOUNT IS M3 ΑT 25

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HCOUNT
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          113 114 115 116 117 118 119
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DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:

L4

L5

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 119

STEREO ATTRIBUTES: NONE

L3 2 SEA FILE=REGISTRY SSS FUL L1 •

(FILE 'HOME' ENTERED AT 16:50:45 ON 05 DEC 2005)

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FILE 'REGISTRY' ENTERED AT 16:50:53 ON 05 DEC 2005
L1 STRUCTURE UPLOADED
L2 0 SEA SSS SAM L1
L3 2 SEA SSS FUL L1
SAVE TEMP L3 GUD272FULL/A
D LC 1-2
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FILE 'REGISTRY' ENTERED AT 16:52:21 ON 05 DEC 2005 D QUE L3

FILE 'REGISTRY' ENTERED AT 16:52:58 ON 05 DEC 2005 . D STAT QUE L3

FILE 'CAPLUS, USPATFULL' ENTERED AT 16:52:58 ON 05 DEC 2005
4 SEA ABB=ON L3
4 DUP REM L4 (0 DUPLICATES REMOVED)
ANSWERS '1-3' FROM FILE CAPLUS
ANSWER '4' FROM FILE USPATFULL

D IBIB ED ABS HITSTR 1-4

FILE 'HOME' ENTERED AT 16:53:21 ON 05 DEC 2005

FILE 'REGISTRY' ENTERED AT 16:54:11 ON 05 DEC 2005

D STAT QUE L3

D IDE L3 1-2

FILE 'CAPLUS, USPATFULL' ENTERED AT 16:54:12 ON 05 DEC 2005

4 SEA ABB=ON L3

L6

L7

L8

L9

4 DUP REM L6 (0 DUPLICATES REMOVED)

ANSWERS '1-3' FROM FILE CAPLUS

ANSWER '4' FROM FILE USPATFULL

FILE 'REGISTRY' ENTERED AT 16:55:13 ON 05 DEC 2005

D STAT QUE L3

D SQIDE L3 1-2

FILE 'CAPLUS, USPATFULL' ENTERED AT 16:55:14 ON 05 DEC 2005

4 SEA ABB=ON L3

4 DUP REM L8 (0 DUPLICATES REMOVED)

ANSWERS '1-3' FROM FILE CAPLUS

ANSWER '4' FROM FILE USPATFULL

D IBIB ED ABS HITRN 1-4

FILE 'HOME' ENTERED AT 16:55:28 ON 05 DEC 2005

D QUE L3

FILE HOME

FILE REGISTRY

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<<<

http://www.cas.org/ONLINE/UG/regprops.html

FILE CAPLUS

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2 SEA ABB=ON L2 AND 19/SQL

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FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)
HIGHEST GRANTED PATENT NUMBER: US6971121
HIGHEST APPLICATION PUBLICATION NUMBER: US2005268363
CA INDEXING IS CURRENT THROUGH 1 Dec 2005 (20051201/UPCA)
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